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[redacted]
25 February 1970Copy 1

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MEMORANDUM FOR: Chief, Technical Services
and Support Group*fwc 3/9*ATTENTION: Chief, Research and Engineering
Division [redacted]

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SUBJECT: IEG Comments on "Mid-1970's
Photointerpretation Workstation Concepts"
[redacted] November 1969)

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REFERENCE: Executive Directors Memorandum, NPIC/D-04/70,
8 January 1970

1. The "Mid-1970's Photointerpretation Workstation Concepts" study appears to have some value for reference since it includes material from a number of sources. Of the concepts presented, further automation of the retrieval of collateral and related intelligence appeared the most interesting. However, we have questions regarding this concept as well as the equipment proposed. The study includes some concepts that have been rejected or modified since they were previously proposed.

2. The report does not really provide any unique insight or define any surprising alternatives for imagery exploitation during the mid-1970's. The report further does not represent any departure from the present direction that research and development of imagery exploitation equipment has been progressing. It appears to presuppose the attainment of optimum results from the R&D program, even though it disclaims such optimism.

3. The main problem from our viewpoint is how the equipment systems under development will function here. The concepts have merit in themselves but this paper does not nor cannot establish the usefulness that they might have and the needs that the interpreter will have in the mid-70's time frame.

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GROUP 1
Excluded from automatic
downgrading and
declassification

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Some questions which come to mind are:

a. Will rear projection viewing techniques result in increased scanning rates and thus lead to more efficient scan and search operations? Will the rear projection viewer function adequately? Many problems were experienced in previous use of rear projection viewers.

b. Will the expanded IIS and automatic display (ICDC) features reduce the time consumed by PI's in many of their routine tasks?

c. Will the Automated Stereo Scanner be successful in operation and will this concept substantially increase effectiveness and efficiency of operation? What will be the effect on an interpreter of extended use of this piece of equipment?

4. The area which appears to have the most potential for increasing the efficiency of the exploitation process is assistance from automation in many of the collateral and support activities of the PI and automated retrieval of textual collateral data. This has been the subject of a previous study. (See the [redacted] of 30 January 1969 regarding Alternative 18.) Another area of concern to exploitation which should be addressed in the mid-1970's is automatic correlation of multi-sensor/multi-spectral acquisition systems output.

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5. Each of the three concepts evaluated in the study treat the use of chips and PI mensuration as options. Views of these concepts have been modified or rejected. The chip medium for film distribution is highlighted as a possible solution to the conflicts experienced by PI's in obtaining imagery for readout. Additionally, the report assumes that if PI's accomplish "some" mensuration tasks, this could result in the time savings and reduce the support requirements on photogrammetrists.

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[redacted] November 1969)

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a. A chip system has been defined, in the report, which assumes that a "standard" chip 4 x 6 inches in size will be provided on all known targets covered on each mission. This assumption, probably taken from the [redacted] and the Chip Task Team Report, is contrary to facts. The stated IEG/NPIC imagery requirements for the [redacted] are as follows (roll film only of the total mission take): 3 Duplicate Positive (IEG), 1 Duplicate Negative (Photo Lab), and 1 Duplicate Positive (Film evaluation and mensuration). This concept is being reviewed but not in terms of chips as defined in this study.

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b. There is little or no present capability for PI's to perform mensuration tasks routinely as proposed in the report. The [redacted] Chip Comparator has not been effectively utilized by IEG photointerpreters. PI's have used the chip comparator infrequently and individual PI proficiency is essentially nonexistent. The only remaining comparator available to the PI is being phased out.

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6. The three defined concepts address imagery exploitation in terms of, among others, target readout and analysis, and general area search. Although not specifically stated, this approach presupposes that the general area search function will be the responsibility of a separate functional unit. This philosophy was stated as an alternative in the [redacted] but the present concept for IEG operations in the [redacted] era does not envision reorganization to form a separate component for scan/search functions.

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7. Overall, IEG finds this study of value for reference but has no desire to invest additional resources in its further development.

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[redacted] November 1969)

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Equipment development is proceeding and we shall continue to evaluate it but see no reason to reevaluate it in reaction to this study. We recommend that this study be terminated.

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[redacted]
Chief, Imagery Exploitation Group
NPIC

Distribution:

- Cy 1 - C/TSSG
- 2 - C/IEG
- 3 - C/OD
- 4 - C/EGD
- 5 - C/WGD
- 6 - C/SD
- 7 - C/MSD
- 8 - C/PHD

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6 APR 70

MID-70's P.I. WORKSTATION
RECOMMENDATIONS
FOR NEXT PHASE
BY TSSG/RED

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26 MARCH 1970

MID 70's P.I. WORKSTATION

OBJECTIVE: To DEVELOP A UNIFIED

OPERATIONAL CONCEPT FOR NPIC FOR THE

MID 70's.

SUB-OBJECTIVE: To MAXIMIZE UTILIZATION

OF OPERATIONAL MANPOWER.

ACCOMPLISHING THE OBJECTIVE ALTERNATIVE COURSES

1. TOTAL SYSTEM ANALYSIS
2. LIMITED SYSTEM ANALYSIS
 1. CONTRACTUAL
 2. IN - HOUSE

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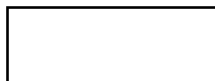
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RELATED ASSETS

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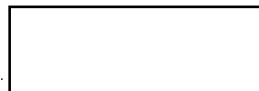


IIS ANALYSIS

PPBS CHIP ANALYSIS

DECISION STUDIES RPTS.

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MID-70's ANALYSIS

- ASSUMPTIONS
- DETAILED P.I. OPS ANALYSIS
MANPOWER, COST, PROCEDURES, EQUIP.
- NO SUPPORT ANALYSIS

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TASK I

IMAGERY - DERIVED INTELLIGENCE SYSTEM

REQUIREMENTS

COLLECTION

PROCESSING

EXPLOITATION

ANALYSIS

ASSUMPTIONS

FURTHER DEFINITION

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TASK II

EXPLOITATION SUBSYSTEM

INTERPRETATION SYSTEM ANALYSIS

REVISE ☐ ANALYSIS 25X1

AIRCRAFT READOUT

CUSTOMIZE

NEW SYSTEMS - COLOR, EOI

ALTERNATIVES

REQUIREMENTS

RESOURCES

R&D PRODUCTS

SUPPORT SYSTEM ANALYSIS

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SYSTEMS ANALYSIS

MANAGEMENT

CONFIGURATION CONTROL BOARD

TASK TEAM

ACCOMPLISH BY

CONTRACT

IN-HOUSE

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CONFIGURATION CONTROL BOARD

EX DIR - CH

C/PPBS , C/IEG , C/TSSG , C/PSG

EXTERNAL CONTRACT

IN - HOUSE

TASKS CCB MEMBERS

STAFF SUPPORT

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TASK TEAM

I. PPBS/CH, IEG/REP, PSG/REP
TSSG/REP, RED/OBS, LOG/OBS.

- IN-HOUSE EFFORT
- REPORTS TO SENIOR STAFF
- FULL-TIME MEMBERS + SUPPORT

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MEMORANDUM FOR:

Special Agent / NPIC

AL,

[Redacted]

requested this document for his information the morning of 27 March 70.

[Redacted]

26 Mar 70
(DATE)

FORM NO. 101 REPLACES FORM 10-101
1 AUG 54 WHICH MAY BE USED.

(47)